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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO	
10/625,525	07/24/2003	Sang Seok Lee	8733.871.00-US	8162	
30827 75	590 04/18/2006		EXAMINER		
MCKENNA LONG & ALDRIDGE LLP			SCHATZ, CHRISTOPHER		
1900 K STREE WASHINGTO	•		ART UNIT	PAPER NUMBER	
	,		1733		
			DATE MAILED: 04/18/2006	DATE MAILED: 04/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application	on No.	Applicant(s)	
	10/625,52	!5	LEE ET AL.	
Office Action Summary	Examiner		Art Unit	
		er T. Schatz	1733	<u> </u>
The MAILING DATE of this comm Period for Reply	nunication appears on the	cover sheet with the c	orrespondence address	;
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provis after SIX (6) MONTHS from the mailing date of this c - If NO period for reply is specified above, the maximul - Failure to reply within the set or extended period for rany reply received by the Office later than three mon earned patent term adjustment. See 37 CFR 1.704(b)	E MAILING DATE OF THe ions of 37 CFR 1.136(a). In no even communication. In statutory period will apply and with eply will, by statute, cause the apply this after the mailing date of this co	IIS COMMUNICATION ont, however, may a reply be tim Il expire SIX (6) MONTHS from ication to become ABANDONET	N. nely filed the mailing date of this communi D (35 U.S.C. § 133).	·
Status				
 Responsive to communication(s) This action is FINAL. Since this application is in condition closed in accordance with the present of the condition of the	2b) ☐ This action is n on for allowance except	on-final. for formal matters, pro		its is
Disposition of Claims				•
4) Claim(s) 1-22 is/are pending in the 4a) Of the above claim(s) 20-22 is 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to 8) Claim(s) are subject to res Application Papers 9) The specification is objected to by 10) The drawing(s) filed on is/a Applicant may not request that any of	s/are withdrawn from cor striction and/or election ro the Examiner. are: a) accepted or b)	equirement. □ objected to by the E		
Replacement drawing sheet(s) included the second sheet (s) include				
Priority under 35 U.S.C. § 119				
a) Acknowledgment is made of a cla a) All b) Some * c) None of 1. Certified copies of the prior 2. Certified copies of the prior 3. Copies of the certified copies application from the Internation	f: rity documents have bee rity documents have bee es of the priority docume ational Bureau (PCT Rul	n received. n received in Application ents have been receive e 17.2(a)).	on No ed in this National Stage	e ·
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-144) Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

Art Unit: 1733

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 6-14, 19, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Hayafuji et al. (US 2003/0205333) for the same reasons as presented in paragraph 2 of examiner's office dated November 15, 2005.

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

Art Unit: 1733

4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi et al. (JP 2000-284295) in view of Machida et al. '578, and optionally Cram '132 for the same reasons

as presented in paragraph 5 of examiner's office dated November 15, 2005.

5. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi et al. and Machida et al. as applied above, and in further view of Kubota et al. '053 for the same reasons as presented in paragraph 6 of examiner's office dated November 15, 2005.

Response to Arguments

Applicant's arguments filed February 14, 2006 have been fully considered but they are not persuasive. Applicant states "The structure of claim 1 of the present invention is different from the Hayafuji structure in that Hayafuji does not disclose or suggest an upper stage fixed to the upper chamber unit for securing a first substrate; a lower stage fixed to the lower chamber unit for securing a second substrate. The Examiner alleges that elements 21 and 12 are the upper stage and upper chamber units respectively, however Hayafuji discloses that element 21 is the frame body (para. (0042)) and that element 12 is the top lid (para. (00411)." This argument is not found convincing because applicant's claim as written, does not present any structural or physical limitations that uniquely differentiate applicant's recited "upper stage" from element 21 of Hayafuji. Regardless of what term Hayafuji uses with respect to element 21, applicant should note that the claimed "upper stage" reads on element 21 since, in addition to being connected to the upper chamber 12, it supports the upper retention head 10 and is therefore part of the means for securing substrate 3. With respect to element 12, applicant should note that Hayafuji defines element 12 as the "chamber top lid." Examiner asserts that this reads on the term "upper chamber

Art Unit: 1733

unit" since applicant does not present any structural or physical limitations that uniquely differentiate applicant's recited "upper chamber unit" from element 12 of Hayafuji. Additionally, examiner asserts that element 12 as shown in figure 5 of Hayafuji is analogous to applicant's element 210 as shown in figure 5 of the specification since Hayafuji's element 12 (upper chamber unit) cooperates with Hayafuji's element 13 (lower chamber unit) to form a hermetically sealed chamber.

As to Satoshi and Machida, applicant states that "In addition, as the Examiner acknowledges, neither Satoshi nor Machida teach or suggest 'elastic members arranged between the upper and lower chamber units and the upper and lower stages' as recited in claim 1." Examiner never made such an acknowledgement. On page 6 of the office action dated November 15, 2005, examiner stated "Although Machida et al. is silent as to the presence of elastic members on the upper part of the apparatus, one of ordinary skill in the art would have readily understood that placement of the elastic members 108 between both the upper chamber and upper stage and lower chamber and lower stage of Satoshi et al. respectively, would maximize the ability of Satoshi's apparatus to apply uniform pressure during bonding, thus creating an apparatus capable of producing a high quality of the bond." Applicant should note that examiner only acknowledged that Machida et al. did not explicitly disclose elastic members between the upper stage and the upper chamber unit. Applicant states that examiner's assertion that it is obvious to add elastic members is impermissible hindsight. Applicant should note that Machida et al., which like Satoshi is directed to the liquid crystal panel art, explicitly discloses elastic members between a lower stage and a lower chamber unit and further provides motivation (uniform pressure application) as to why one of ordinary skill in the art would have been

Art Unit: 1733

motivated to modify Satoshi by placing said elastic members between the stage and the chamber unit (see page 6 of the office action dated November 15, 2005). Thus examiner asserts that such an obviousness statement is not hindsight. As to placing elastic members between the upper stage and upper chamber unit of Satoshi, examiner respectfully asserts that the advantages disclosed by Machida of placing elastic members between the lower chamber unit and lower stage would also be realized if said members were applied between the upper chamber unit and upper stage (see page 6 of the office action dated November 15, 2005). Furthermore, additional suggestion to use elastic members between the upper and lower chamber units and the upper and lower stages is found in Cram which suggests using upper springs in addition to lower springs to obtain proper sealing. Applicant is advised that one cannot show nonobviousness by attacking references individually and in a vacuum of each other as a rejection under 35 U.S.C. 103 is a consideration relating to the combined teachings of the references (and not each reference in a vacuum of the others).

As to claims 4 and 5, applicant failed to address examiner's statement that use of conical or plate shaped springs in well known in the art, and thus the use of conical or plate shaped springs is now taken by examiner be admitted prior art. MPEP 2144.03.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO Application/Control Number: 10/625,525

Art Unit: 1733

Page 6

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher T. Schatz whose telephone number is 571-272-

1456. The examiner can normally be reached on 8:00-5:30, Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Crispino can be reached on 571-272-1226. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RICHARD CRISPINO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700